Wireless Notebook Adapter 11a/g

CPWNA100

Instructions for use

VERSION 1.0

PHILIPS

PHILIPS

AQ95-56F-526-PF
(report No.)

DECLARATION OF CONFORMITY

We, Philips Consumer Electronics, BLC P&A CC:
Building SBP6
(manufacturer's name)

P.O.Box 80002, 5600 JB Eindhoven, The Netherlands
(manufacturer's address)

declare under our responsibility that the radio product :

Philips
(name)

CPWNA100,
(type or model)

Wireless Notebook adapter a/g
(product description)

to which this declaration relates is in conformity with the following standards:

EN 300 328 -1 v1.3.1 (2001-12)
EN 300 328-2 v1.2.1 (2001-12)
Draft ETSI EN301 893 V1.2.1 (2002-07)
EN 301 489-1 (2002-08)
EN 301 489-17 (2002-08)
EN 60950 (2000-01)
FCC OET Bulletin 65 Suppl. C (01-10)
EN 50361
(title and/or number and date of issue of the standards)

following the provisions of 1999/5/EC (R&TTE Directive).

Eindhoven, 9 February 2004
(place, date)

P.Frantzen.
General Approbations Manager
(signature, name and function

2822 100 05288

English
Hereby, Philips Consumer Electronics, BLC P&A CC, declares that this CPWNA100 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Finnish
Philips Consumer Electronics, BLC P&A CC vakuuttaa täten että CPWNA100 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Dutch
Hierbij verklaart, Philips Consumer Electronics, BLC P&A CC dat het toestel CPWNA100 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

French
Par la présente, Philips Consumer Electronics, BLC P&A CC, déclare que l'appareil CPWNA100 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE

Swedish
Härmed intygar, Philips Consumer Electronics, BLC P&A CC, att denna CPWNA100 står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Danish
Undertegnede Philips Consumer Electronics, BLC P&A CC erklærer herved, at følgende udstyr CPWNA100 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF

German
Hiermit erklärt Philips Consumer Electronics, BLC P&A CC die Übereinstimmung des Gerätes CPWNA100 mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG.

Greek
ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Πθιμιπτ Γοξτφνεσ Εμεγυσοξιγτ, Β.Φ. Πεσιπθεσαμτ & Αγγεττοσιετ ΤΗΛ ΫΝΕΙ ΟΤΙ ΓΠΨΦΑ054 ΣΥΜΜΟΡΦ ΫΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙ ΫΤΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΤΙΑΤΑΞΕΙΣ ΤΗΣ ΟΤΗΓΙΑΣ 1999/5/

Italian
Con la presente Philips Consumer Electronics, BLC P&A CC dichiara che questo CPWNA100 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Spanish
Por medio de la presente, Philips Consumer Electronics, BLC P&A CC, declara que el CPWNA100 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE

Portuguese
Philips Consumer Electronics, BLC P&A CC declara que este CPWNA100 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

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European Regulations

This product has been designed, tested and manufactured according to the European R&TTE Directive 1999/5/EC.

Following this Directive, this product can be brought into service in the following states:

B ✔	DK ✔	E ✔	GR ✘	F ✔
IRL ✔	I ✔	L ✔	NL ✔	A ✔
P ✘	SU ✔	S ✔	UK ✘	N ✔
D ✔	CH ✔			

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Chapter 1 - Introduction of the Wireless Notebook Adapter 11a/g

CPWNA100

Thank you for purchasing the Philips Wireless Notebook Adapter 11a/g. This Wireless Notebook Adapter 11a/g is a WiFi (IEEE 802.11a/g) compatible Notebook device. It fully supports high data rates up to 54 Mbps with automatic fallback to lower speeds for secure operation at lower data rates in even the most difficult of wireless environments.

In this manual we will expand on how to install, configure, and use your Wireless Notebook Adapter 11a/g.

This chapter will give you background information on wireless networks and their security in general.

What are wireless network connections?

Your wireless network adapter uses a wireless protocol (called IEEE 802.11a/g or WiFi) to communicate with other network computers by means of radio transmissions. WiFi radio waves travel outwards from the antenna in all directions, and can transmit through walls and floors. Wireless transmissions can theoretically reach up to 450 meters in an open environment and reach speeds of up to 100 megabits per second (Mbps) at close range. However, the actual network range and data throughput rate will be less, depending on the wireless link quality.

Factors determining your network range and network speed

- The environment: Radio signals can travel farther outside of buildings, and if the wireless components are in direct line of sight to one another. Putting wireless components in high places helps avoid physical obstacles and provides better coverage.
- Building construction such as metal framing and concrete or masonry walls and floors will reduce radio signal strength. Avoid putting wireless components next to walls and other large, solid objects; or next to large metal objects such as computers, monitors, and appliances.
- Wireless signal range, speed, and strength can be affected by interference from neighbouring wireless networks and devices. Electro-magnetic devices such as televisions, radios, microwave ovens, and cordless phones, especially those with frequencies in the 2.4 GHz range, may also interfere with wireless transmission.
- Standing or sitting too close to wireless equipment can also affect radio signal quality.
- Adjusting the antenna: Do not place antennas next to large pieces of metal, because this might cause interference.

Securing your wireless network
As wireless computer networks use radio signals, it is possible for other wireless network devices outside your immediate area to pick up the wireless signals and either connect to your network or to capture the network traffic. Therefore, you should always enable the Wired Equivalent Privacy **(WEP)** or WiFi Protected Access **(WPA)** network encryption key to help prevent unauthorised connections or the possibility of eavesdroppers listening in on your network traffic.

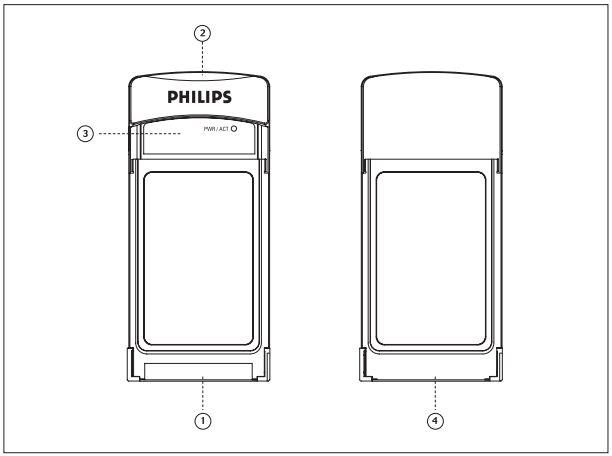
For an example of how to secure your network, please see the chapter on "An example of how to secure your wireless network."

Packaging contents

Please check whether all of the following items are present in the box of the Wireless Notebook Adapter 11a/g. These are provided to help you set up and use your Wireless Notebook Adapter 11a/g. Contact your Philips retailer if any items are missing.

- Wireless Notebook Adapter 11a/g
- Installation CD
- "How to…?" booklet

Your Wireless Notebook Adapter 11a/g



1 Connector to PC
For connecting the Wireless Notebook Adapter 11a/g into a PC Card slot of your laptop.

2 Integrated antenna
Built-in antenna for establishing wireless connections.

3 Indicator LED
Displays the network status.

LED	LED colour	Meaning
Power	Blue	• Off when not connected or with PC switched off. • On when receiving power and ready for operation. • Blinking when scanning for wireless networks
Act	Blue	Flashing when transmitting data (network activity).

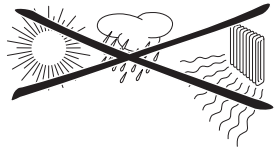
4 Label with MAC address
The designation consisting of 12 characters (e.g. 00:30:F1:A1:F4:A5 or, in general, xx:xx:xx:xx:xx:xx) is the unique MAC address of this network device. Some safety features or network identification purposes need this MAC address.

Chapter 2 - Important information

- Please install and connect the product in the order as described in the "How to..." booklet only. This assures best installation results with the least technical hassles.
- Please read this manual and the "How to…?" booklet carefully before using the Wireless Notebook Adapter 11a/g; and keep these documents for future reference.
- The most recent downloads and information on this product will be available through our web site www.philips.com/support
- During set-up and installation, it may be helpful to have the instructions for your PC and other network components at hand.

Safety Precautions

- Radio equipment for wireless applications is not protected against disturbance from other radio services.



- Do not expose the system to excessive moisture, rain, sand or heat sources.
- The product should not be exposed to dripping or splashing. No object filled with liquids, such as vases, should be placed on the product.
- Keep the product away from domestic heating equipment and direct sunlight.
- Allow a sufficient amount of free space all around the product for adequate ventilation.
- Do not open this product. Contact your Philips retailer if you experience technical difficulties.

Environmental information

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into three mono materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet). Your set consists of materials that can be recycled if disassembled by a specialised company. Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

Disclaimer

This product is provided by "Philips" "as is" and without any express or implied warranty of any kind of warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed.

In no event shall Philips be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of information, data, or profits; or business interruption) howsoever caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of inability to use this product, even if advised of the possibility of such damages.

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Chapter 3 - Installing the Wireless Notebook Adapter 11a/g

This chapter will give you information on what you need to do when installing the Wireless Notebook Adapter 11a/g. You need to do two things:

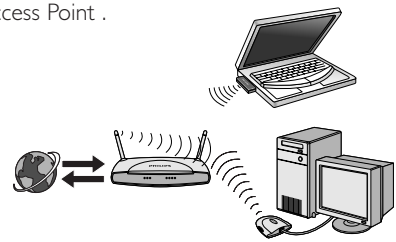
- Decide in what way you want the Wireless Notebook Adapter 11a/g to connect to other wireless network devices. See below at 3.1. Note: You can always change your settings afterwards to make a different type of connection.
- Use the 'How to...?" booklet to help you through the installation procedure. See below at 3.2.

Note: If you need to know more about the (network) terminology used, please read the chapter on Network Terminology at the end of this manual.

3.1 - Decide in what way you want the Wireless Notebook Adapter 11a/g to connect to other wireless network devices. Your options are:

Option 1

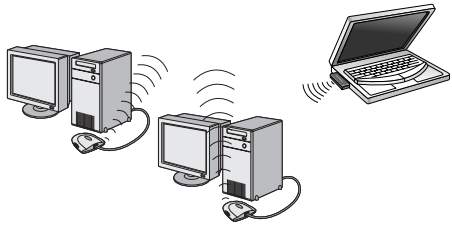
Make an Infrastructure wireless connection to other wireless network devices. – **Infrastructure (Wireless Base Station)** - for Internet sharing and for wireless networks with a central Wireless Base Station or Wireless Access Point .



Infrastructure wireless network

A Philips Wireless Base Station is used to provide the computers in its wireless network with wireless access to the Internet or to each other.

Option 2
Make an Ad-Hoc wireless connection to another wireless network device. – **Ad Hoc (also called Peer-to-Peer)** - used for small groups of computers that only communicate with each other.



Ad Hoc wireless network

An ad hoc wireless network consists of a group of computers, each equipped with one wireless adapter, connected via radio signals as an independent wireless network.
Choose AdHoc when connecting Philips **Streamium** products.

3.2 - Use the 'How to...?" booklet to help you through the installation procedure.

1. Take the "How to...?" booklet, and follow its step by step instructions for installing the Wireless Notebook Adapter 11a/g.

2. When asked if you want to set-up an Ad-Hoc or Infrastructure Network, select the type of network that you decided to install in 3.1 above.

Should there appear any error messages or requests for additional information on the screen, then please read the "Troubleshooting" section. Please visit our web site www.philips.com/support if you need further assistance.

IMPORTANT: By installing the Wireless Notebook Adapter 11a/g and making a connection with another Wireless Network Adapter or a Wireless Base Station, you only will have created the physical (wireless) connection between these network devices. Much like connecting a network cable between two wired network adapters.
You still have to install applications for using the wireless network. As an example, see the chapter on creating a home computer network in this manual if you want to use the wireless network for that particular purpose.

Chapter 4 - Checking and changing settings: CPWNA Monitor

After installing the Wireless Notebook Adapter 11a/g, you may want to check its settings or change them.

In the following sections we will explain:

4.1 - How to access the settings
4.2 - What do the settings mean.

Please refer to the "How to..?" booklet if you want to perform basic tasks like setting up a wireless connection.

4.1 - How to access the settings

You can access the settings by double-clicking the CPWNA Monitor program that loads during start-up of the PC, and that stays active in the system tray in the lower right corner of your laptop screen.

Note: if the program icon is not present in the system tray, click on CPWNA Monitor in the Philips Wireless Network Manager program group.

System tray icon

1 The icon represents signal strength and wireless link status. In addition, it gives you access to the Philips Wireless Network Manager and its configuration menus.

2 Right-clicking the system tray icon displays the following options:

- **Profiles** (e.g. DEFAULT and others in the top part of this menu)
  For choosing one of your profiles. The active profile is marked. You need to open (click Show) the Philips Wireless Network Manager if you want to add or delete a profile.

- **Wireless On/Off:**
  Gives you control over enabling and disabling the wireless link

- **Show: Philips Wireless Network Manager** (CPWNA Monitor)
  Opens the Philips utility program for viewing and changing your wireless network adapter settings.

- **Hide**
  Hides the system tray icon from the system tray until you restart your laptop, without disabling the wireless network adapter.

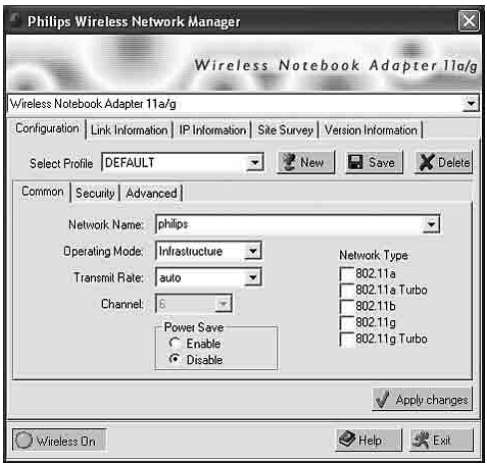
- **Exit**
  Disables the wireless network adapter and removes the system tray icon from the system tray until you restart your laptop.

4.2 - What do the settings mean

The Wireless Network Manager program (CPWNA Monitor) has five main tabs with information and settings.

Note: The Wireless On/Off button appears on the bottom of every tab to give you control over enabling and disabling the wireless link.

- **Configuration**



The **Configuration** tab lets you manage your profiles, and gives you access to your wireless network and encryption settings.

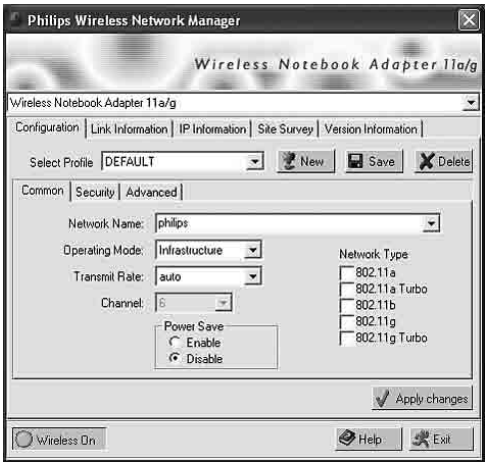
A profile is a set of all settings needed for a particular wireless connection. If you want to change between wireless networks, you can simply switch from one saved profile to the other.

Use the **New**, **Save** and **Delete** buttons for managing your profiles.

Note: refer to the "How to..?" booklet on how to set-up a wireless connection.

The Configuration tab contains three sub-tabs: **Common**, **Security**, and **Advanced**. See below for an explanation of the settings of these sub-tabs.

- **Configuration - sub-tab Common**



Network Name – Input a wireless network name for the wireless network to which you want to connect. Alternatively, use the Site Survey tab to choose from the list of available Network Names. (Default: philips.)

Operating Mode – Set the operation mode to ***Ad Hoc (Peer-to-Peer)*** for network configurations that do not have a Wireless Base Station , and to ***Infrastructure*** for configurations with a wireless base station. (Infrastructure is the default setting.)

Transmit Rate – ***Auto*** will automatically negotiate the highest possible wireless network speed. Or set a lower speed manually. Lower speeds will give better range.

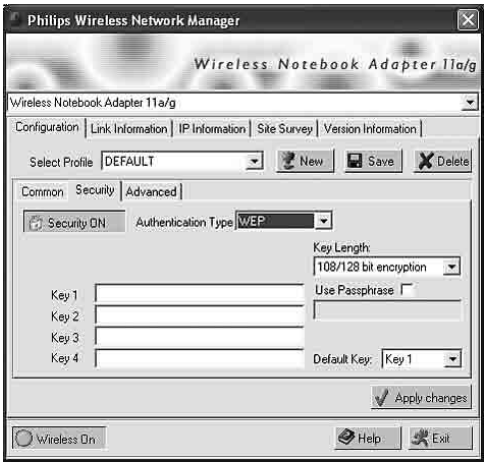
Channel – If you are setting up an Ad Hoc wireless network, set the channel number to the same radio channel as that used by the other wireless devices in your group. However, if you are connecting to a network via a base station, then the channel is automatically set to the channel of the base station to which the adapter connects. The Channel can only be set when the Operating Mode is set to Ad Hoc (Peer-to-Peer).

Power Save – Click the box if you want to use power management to reduce your portable computer's consumption of battery power and still keep the laptop available for immediate use.

IMPORTANT: All computers and wireless network devices in the same network should have the same Network Name (SSID) and the same encryption key for wireless security. In Ad Hoc mode, you must also specify the same radio channel for all wireless devices.

Note: refer to the "How to..?" booklet on how to set-up a wireless connection.

- **Configuration - sub-tab Security**



First, click the ***Security ON/OFF*** button to enable or disable wireless security.

Wired Equivalent Privacy (WEP) and WiFi Protected Access (WPA) are implemented in the adapter to prevent unauthorized access to your wireless network.

The ***WPA (WiFi Protected Access)*** implemented in this Wireless Notebook Adapter 11a/g uses an alphanumeric password between 8 and 63 characters long. This password may include symbols and spaces. ***IMPORTANT:*** You must use the same encryption key throughout your network.

NOTE:
When connecting to a Wireless Base Station, the Base Station will determine what type of key and security are to be used. The settings below are only needed for Ad-Hoc use of the Wireless Notebook Adapter.

Authentication Type – Choose ***Open*** or ***Shared*** depending on the type of wireless security in the rest of your wireless network.

Key length – For more secure data transmissions, set encryption to the highest number of bits. E.g. a 128-bit setting gives you a higher level of security than 64-bit. ***IMPORTANT:*** The setting must be the same for all clients in your wireless network.

Use Passphrase – If Passphrase is selected, security keys for WEP encryption are generated from your passphrase string. If encryption is set to 128 bit, only Key 1 is generated. If encryption is set to 64 bit, Keys 1-4 are generated. You must use the same Passphrase and Default Key settings on all the other stations in your network. Note: A passphrase string can consist of up to 32 alphanumeric characters. After entering the passphrase, click

Apply.

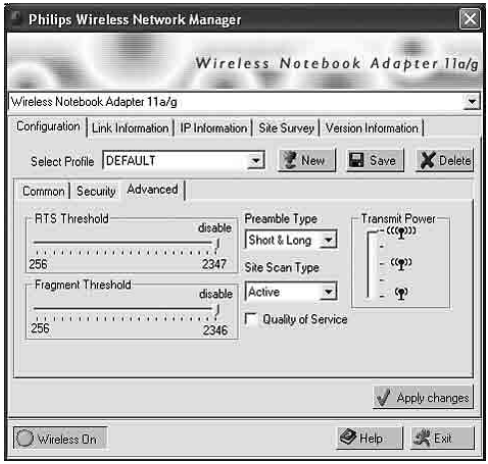
Key Type

– If the Key Type is set to ***Hex,*** the security keys are four 10 digit keys for the 64-bit WEP setting and four 26-digit keys for the 128-bit WEP setting. (The hexadecimal digits can be 0~9 & A~F, e.g. D7 0A 9C 7F E5.)
– If the Key Type is set to ***ASCII,*** the security keys are four 5-digit keys for the 64-bit WEP setting and four 13-digit keys for the 128-bit WEP setting.

Default Key – Choose the Key ID that has the encryption string you prefer. If you are using a key generated from the passphrase, you must use the same passphrase and key on each wireless device.

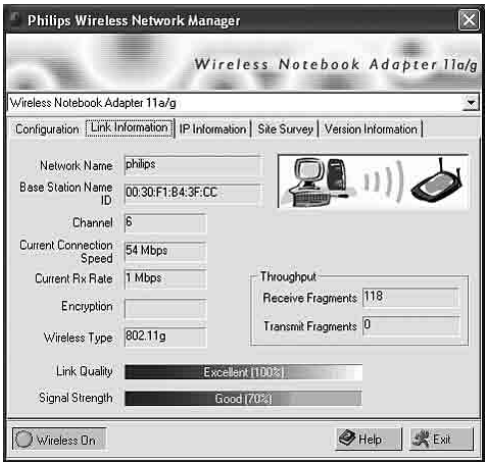
For an example of how to change your encryption settings, please see the chapter on "An example of how to secure your wireless network."

- **Configuration - sub-tab Advanced**



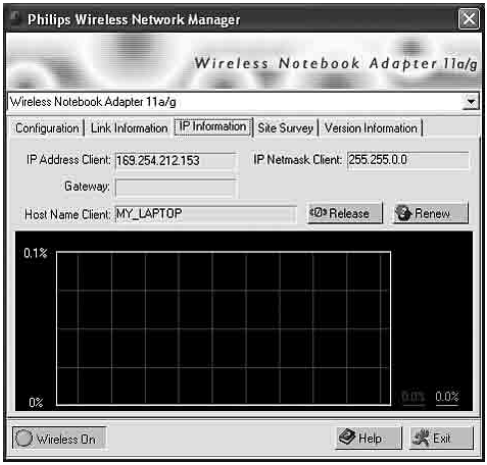
Keep the Advanced settings at their default values, unless you have a specific reason for changing them.
Click ***Help*** if you need more information on these settings.

- **Link information**



The **Link information tab** displays information on the wireless network name (Network Name) to which there is a wireless connection, the signal strength and link quality, the connection speed, the channel and the number of transmitted/received (Tx/Rx) fragments.

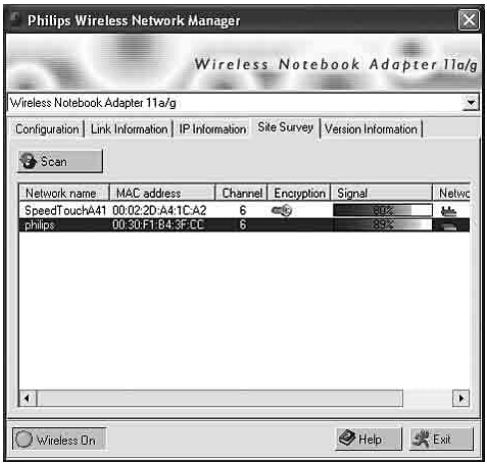
- **IP information**



The **IP information tab** displays information on the Host Name, IP Address, Subnet Mask, and Gateway.

This window also contains buttons for ***releasing*** and ***renewing*** the IP address. This is done to bring a computer back onto the network after moving it to a different location, or after experiencing an unexpected outage. First release, then renew the IP address. Computers on DHCP networks often (but not always) re-establish network connectivity automatically.

- **Site Survey**



Selecting the Site Survey tab displays a list of available wireless network access points.

Next, click ***Rescan*** to update the list.
It shows you the following information:

- The name of the wireless connection (Network Name, or SSID)
- Signal strength and wireless link quality
- An icon reflecting if encryption is enabled

Double-click one of the network names to open the Profile Wizard for establishing a wireless connection with that network.
Note: refer to the "How to..?" booklet on how to set-up a wireless connection.

- **Version information**

Selecting this tab displays vendor and version information.

Chapter 5 - General network and security related information

The DOs and DON'Ts of securing your wireless network

Note: For an example of how to encrypt your wireless network, please see the chapter on "An example of how to secure your wireless network."

DO

Enable the highest encryption key level that your hardware provides for. Upgrade your hardware, if possible. If you do not protect your wireless network, all data from your PC might be accessible by, for example, your neighbours or passers-by.

Use a wireless base station or router with Network Address Translation (NAT) and firewall enabled for sharing your Internet connection.

Change the default passwords for your network devices. Leaving these at default makes it easy for an outsider to gain access.

Position wireless base stations away from windows and toward the centre of your home.This decreases the strength of the signal outside your home.

Some wireless base stations allow you to control access based on the unique Media Access Control (MAC) address of the network adapter trying to associate with it. If a MAC address has not been registered in the wireless base station, it will not associate with it. If your base station has this feature, enable it and add the MAC addresses of the network adapters.

Just use common sense: Install an anti-virus program on each computer on your network and use it regularly to check your computers for viruses. Remember to update the anti-virus program on a regular basis.

DON'T

Do not rely on radio transmission range limitations to secure your network. Enable wireless security (WEP/WPA) to protect your network from unwanted access.

Use encryption keys and passwords that are hard to guess. Do not change passwords to reflect your name, address, or anything that would be easy to guess.

Never open attachments to email messages that you are not expecting. In addition, scan all diskettes and home-made CDs for viruses before opening files from them, or before starting your computer from them.

Do not load a program from an unknown source onto one of your network computers.
Do not ignore the common signs of viruses: unusual messages that appear

on your screen, decreased system performance, missing data, and inability to access your hard drive. If you notice any of these problems on your computer, run your anti-virus program immediately to minimise the chances of losing data.

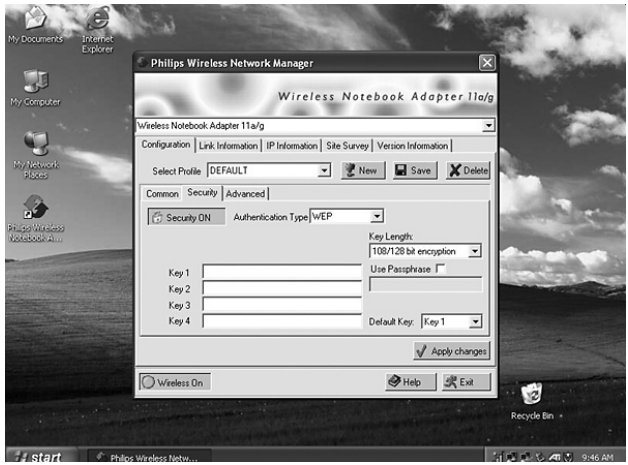
Do not connect your home network to broadband Internet without taking security measures: If you do not have a wireless base station installed on your network and you are sharing Internet access through one of the computers, you may want to consider installing firewall software.

Securing your network from Internet access
Check in the documentation of your wireless base station or router whether it provides you with a built-in firewall and network address translation (NAT), which provide security for an "always-on" broadband Internet connection that is shared among the computers and devices on your home network.

Computers on an Ad Hoc network may share an Internet connection that is set up on one of the computers (ICS). However, a **firewall** is usually not built-in and you should install one on the computer that is sharing the Internet connection.

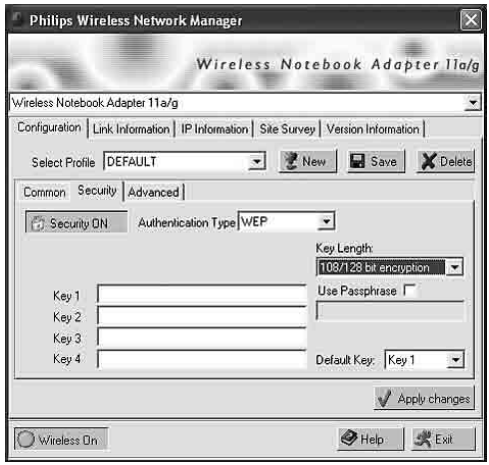
Chapter 6 - Example of how to secure your wireless network

This is an example of how to secure your wireless network using the Philips Wireless Notebook Adapter 11a/g Monitor program.



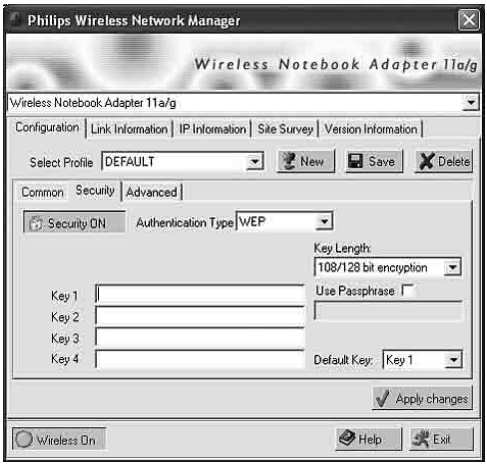
Double-click the CPWNA Monitor icon in the lower right corner of the screen.

Click the 'Configuration' tab. Then click the Security sub-tab. The encryption settings are in the lower part of this window.



The encryption (or WEP code) can be seen as a password for your wireless network. Only devices with the correct password may use the network.

Set 'Key Length' to exactly the same wireless security strength (64 bit or 128 bit) as your Wireless Base Station or other wireless network adapters. The higher the better. Therefore, select '128 bit'.

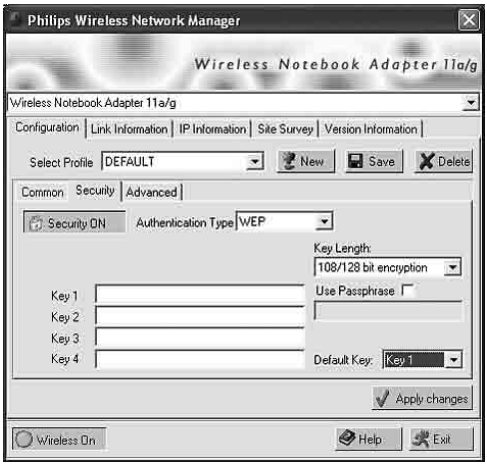


Select 'ASCII' as your Key Type. This enables you to enter an encryption key in normal text.

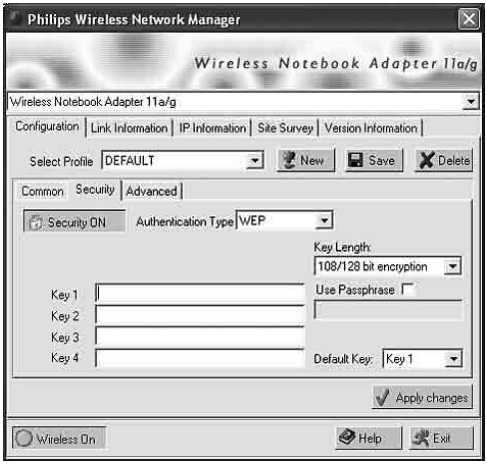
After 'Key 1', enter a code in text and numbers that will be hard to guess.

IMPORTANT:

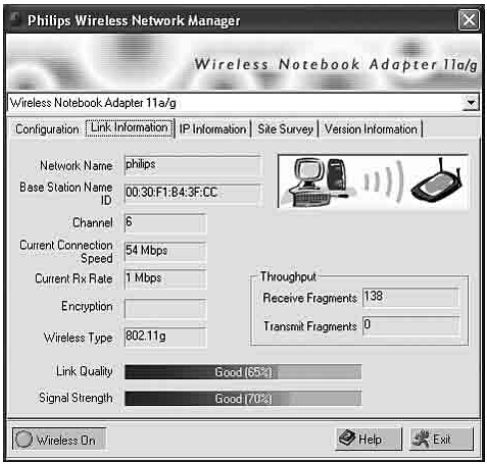
– You need to make a difference between upper case and lower case characters. I.e.: "SecretCode" is not the same as "secretcode".
– Use 13 characters for 128-bit encryption (e.g. "topsecretcode") and 5 characters for 64-bit encryption (e.g. "my1st").



Set the Default Key to be used to '1'.

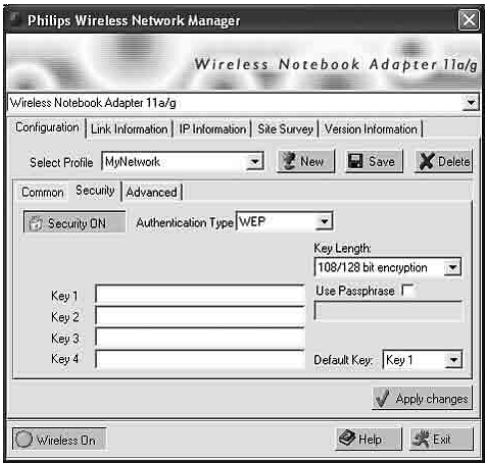


Click 'Apply changes'.



The 'Link information' tab appears in which you can check the status of the wireless network connection.

Next, click the 'Configuration' tab.



Click 'Save' to save the changes you made to the wireless network profile. Finally, click 'Exit' to close CPWNA Monitor program.

Note:The encryption key you entered will be replaced by asterisks for security reasons.

Chapter 7 - Example of use: how to set-up a computer network?

After installing the Philips Wireless Notebook Adapter 11a/g and establishing a wireless network connection with another wireless network device, you are ready to start using the network for the application you want to use the network for.
A popular application is to set-up a Windows home network between two or more computers.
The next pages will show you an example of how to set-up a computer network using the Philips Wireless Notebook Adapter 11a/g.

Warning: **The wireless network adapter itself, only enables your laptop to connect to other similar wireless network devices. How you use this connection is up to you.**

Setting-up a computer network is to be seen as an independent application that requires networking software from other manufacturers. For example, the networking software that has been incorporated in the Windows Operating System by Microsoft.

Therefore, the description below is to be seen as an example only.

Which Windows version do you have installed

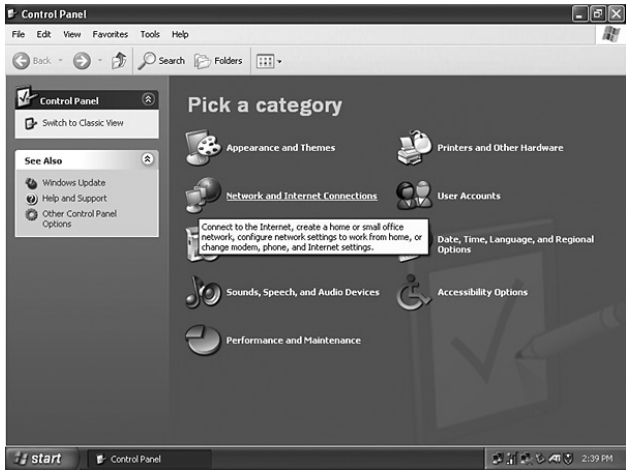
1 Start setting-up your network with the computer that has the latest operating system.
> The order of preference being: Windows XP, Windows 2000, Windows Me, and finally Windows 98SE.

2 Use its Networking Setup Wizard and allow it to make a networking setup diskette.
3 With this diskette, set-up your remaining computer.

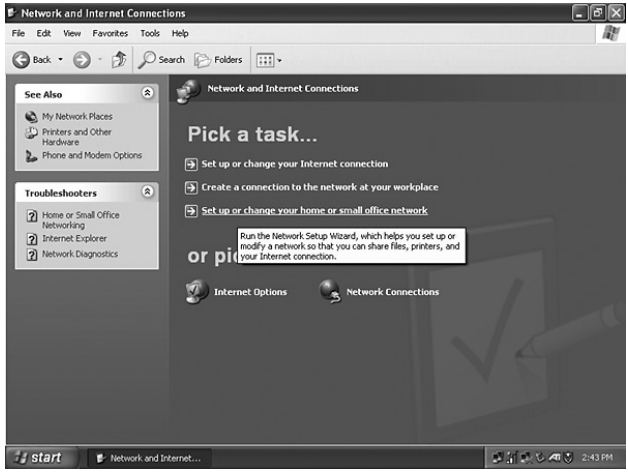
For Windows XP and Windows 2000

See further on in this chapter for Windows Me and Windows 98SE.

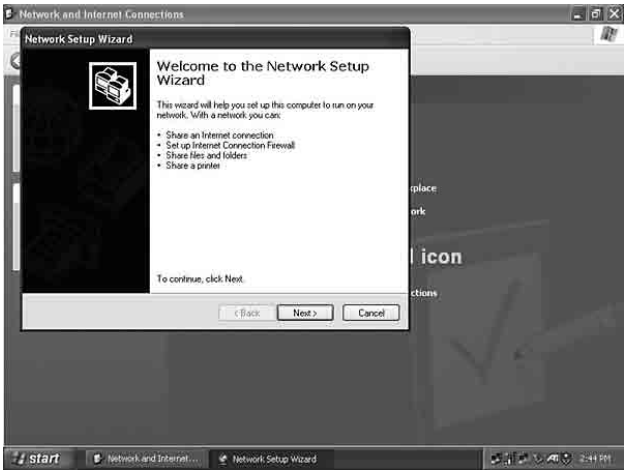
Click the Windows Start button, and click "Control Panel" from the list.


Control Panel
File Edit View Favorites Tools Help
Back Search Folders
Control Panel
Switch to Classic View
See Also
Windows Update
Help and Support
Other Control Panel Options
Pick a category
Appearance and Themes
Printers and Other Hardware
Network and Internet Connections
User Accounts
Connect to the Internet, create a home or small office network, configure network settings to work from home, or change modem, phone, and Internet settings.
Date, Time, Language, and Regional Options
Sounds, Speech, and Audio Devices
Accessibility Options
Performance and Maintenance
start
Control Panel
2:39 PM

Double-click the "Network and Internet connections" icon.


Network and Internet Connections
File Edit View Favorites Tools Help
Back Search Folders
See Also
My Network Places
Printers and Other Hardware
Phone and Modem Options
Troubleshooters
Home or Small Office Networking
Internet Explorer
Network Diagnostics
Network and Internet Connections
Pick a task...
Set up or change your Internet connection
Create a connection to the network at your workplace
Set up or change your home or small office network
Run the Network Setup Wizard, which helps you set up or modify a network so that you can share files, printers, and your Internet connection.
Internet Options
Network Connections
start
Network and Internet...
2:43 PM

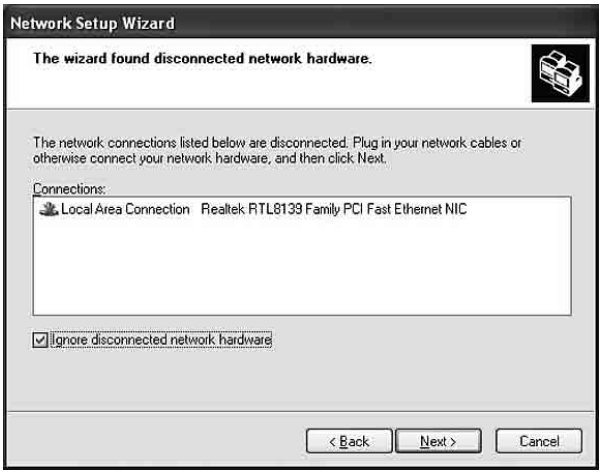
Click in the list to the left on "Setting-up a home network or small business network".


Network and Internet Connections
Network Setup Wizard
Welcome to the Network Setup Wizard
This wizard will help you set up this computer to run on your network. With a network you can:
• Share an Internet connection
• Set up Internet Connection Firewall
• Share files and folders
• Share a printer
To continue, click Next.
< Back
Next >
Cancel
start
Network and Internet...
Network Setup Wizard

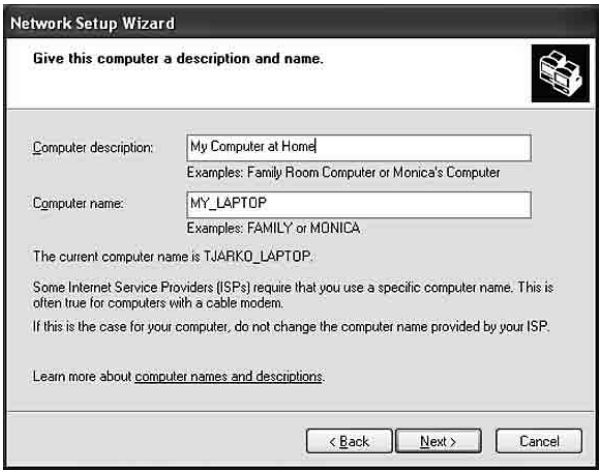
The Wizard Network Setup appears. Click 'Next' to continue.

Wizard Network Settings

1 Please, carefully read the instructions the Wizard gives you, and adapt your choices to the type of network you want to set-up. Use the Help feature within the Wizard if you need more information while using the Wizard.
2 In each window, click 'Next' to go to the next step.
3 Below, we will describe some of the crucial steps of this Wizard.


Network Setup Wizard
The wizard found disconnected network hardware.
The network connections listed below are disconnected. Plug in your network cables or otherwise connect your network hardware, and then click Next.
Connections:
Local Area Connection Realtek RTL8139 Family PCI Fast Ethernet NIC
Ignore disconnected network hardware
< Back
Next >
Cancel

Place a check mark to ignore any broken network connections before clicking 'Next' to continue.


Network Setup Wizard
Give this computer a description and name.
Computer description:
My Computer at Home
Examples: Family Room Computer or Monica's Computer
Computer name:
MY_LAPTOP
Examples: FAMILY or MONICA
The current computer name is TJARKO_LAPTOP.
Some Internet Service Providers (ISPs) require that you use a specific computer name. This is often true for computers with a cable modem.
If this is the case for your computer, do not change the computer name provided by your ISP.
Learn more about computer names and descriptions.
< Back
Next >
Cancel

1 Enter a description that helps you recognize the computer.
2 Enter a name that is different for each computer.
3 Click 'Next' to continue.

Network Setup Wizard
Name your network.
Name your network by specifying a workgroup name below. All computers on your network should have the same workgroup name.
Workgroup name:
MYNETWORK
Examples: HOME or OFFICE
< Back
Next >
Cancel

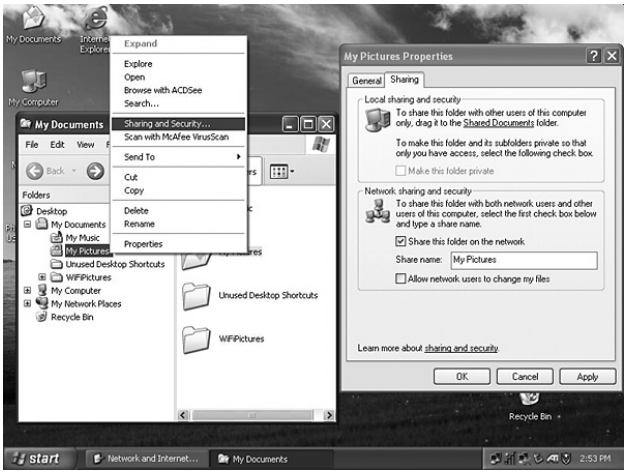
Enter the same workgroup name for all computers in the network, then click 'Next' to continue.

Network Setup Wizard
You're almost done...
You need to run the Network Setup Wizard once on each of the computers on your network. To run the wizard on computers that are not running Windows XP, you can use the Windows XP CD or a Network Setup Disk.
What do you want to do?
Create a Network Setup Disk
Use the Network Setup Disk I already have
Use my Windows XP CD
Just finish the wizard; I don't need to run the wizard on other computers
< Back
Next >
Cancel

Choose to make a networking setup disk. Then click 'Next'.

Network Setup Wizard
Completing the Network Setup Wizard
You have successfully set up this computer for home or small office networking.
For help with home or small office networking, see the following topics in Help and Support Center:
• Using the Shared Documents folder
• Sharing files and folders
To see other computers on your network, click Start, and then click My Network Places.
To close this wizard, click Finish.
< Back
Finish
Cancel

Click 'Finish' to close the Wizard, and then use the disk you made to set-up your other computers.

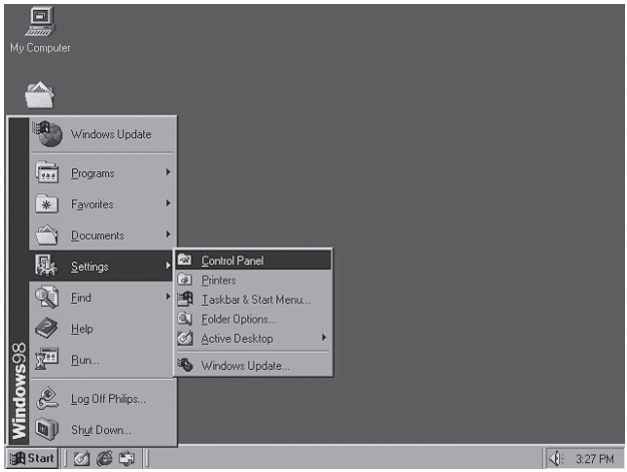


To share folders with the network: Start Windows Explorer and right-click the folder you wish to share with the network. Click the 'Sharing' tab and adapt the settings.

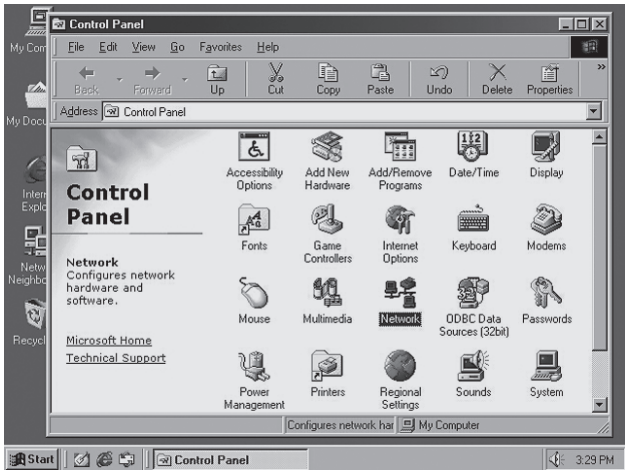
To explore the network: Double-click the Network Environment icon on the desktop.
If you need more information, consult Windows Help.

For Windows 98SE and Windows Me

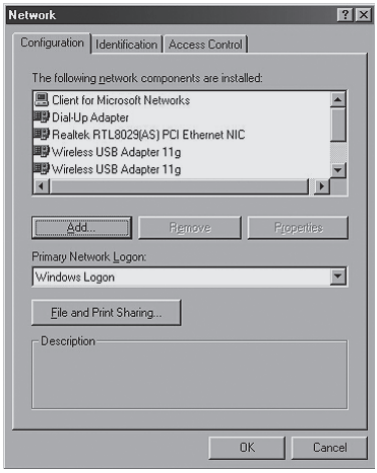
See earlier on in this chapter for Windows XP and Windows 2000.



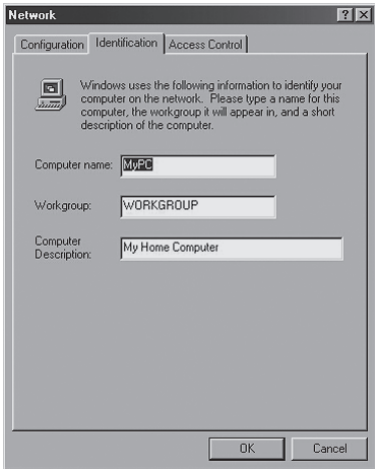
Click the Windows Start button, click "Settings", and click "Control Panel" from the list.



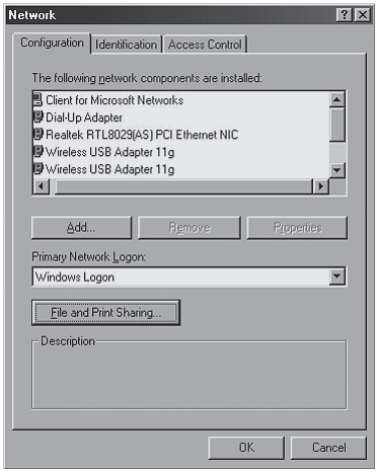
Double-click the "Network" icon.



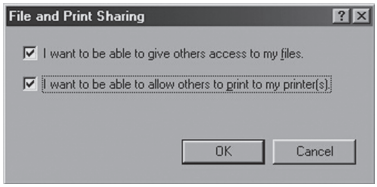
Click the 'Identification' tab.



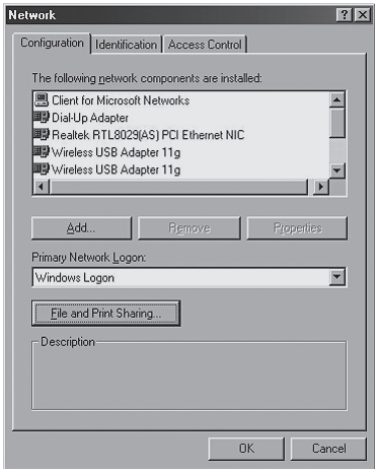
1 Enter a name that is different for each computer.
2 Enter the same workgroup name for all computers in the network.
3 Enter a description that helps you recognize the computer.
4 Click on the 'Configuration' tab to continue.



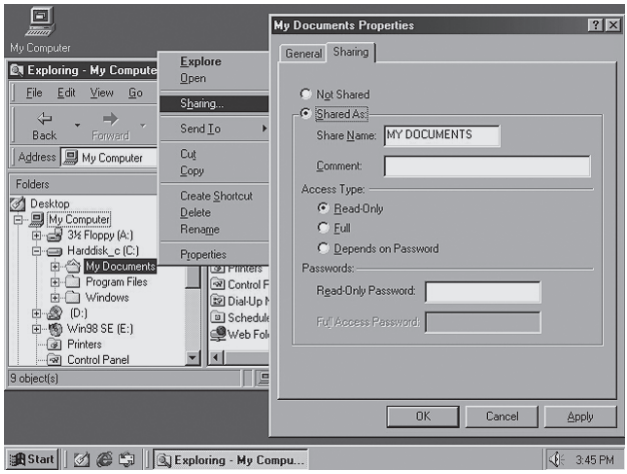
Click the 'Sharing files and printers' button.


File and Print Sharing
I want to be able to give others access to my files.
I want to be able to allow others to print to my printer(s).
OK
Cancel

Select the access options you want, and click 'OK' to continue.



Click 'OK' to accept the changes.



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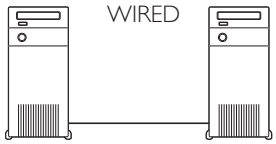
Click the 'Sharing' tab and adapt the settings.

To explore the network: Double-click the Network Environment icon on the desktop.
If you need more information, consult Windows Help.

Chapter 8 - Network terminology

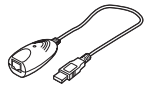
Read this chapter if you want to know how to interpret the terminology used in this manual.

A network provides a means of communication between two or more computers (and other devices) that are connected to each other through wired or wireless means.

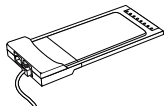


At each computer, you will need a network adapter or Network Interface Card (NIC) to be able to connect the computer to the network cable. Examples are:

Ethernet cable



Ethernet notebook adapter

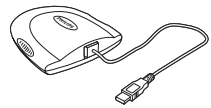


Already built-in

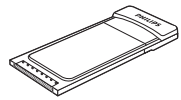
ETHERNET

At each computer, you will need to install a WiFi wireless adapter to be able to connect to another wireless enabled device. Examples are:

Wireless USB adapter 11g



Wireless notebook adapter 11a/g

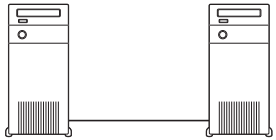


Already built-in

In a network, the computers need to be able to connect to each other physically. Therefore, another important network property is how the computers connect to each other, either directly or through a central device.

ONE-ON-ONE WIRED NETWORK

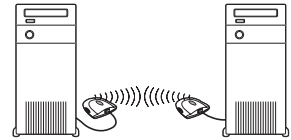
also known as: Direct connection (max. 2 PCs)



NOTE: Use a crossover Ethernet cable to connect two computers directly to each other.

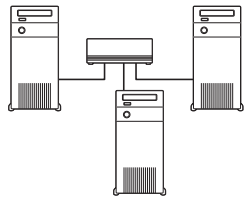
ONE-ON-ONE WIRELESS NETWORK

also known as: Ad Hoc / Peer-to-Peer



WIRED NETWORK WITH MORE THAN 2 PCs

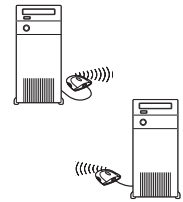
Use a hub or switch to connect more than 2 PCs to each other.



NOTE: Use straight-through Ethernet cables to connect the computers to the central device (hub/switch).

WIRELESS NETWORK WITH MORE THAN 2 PCs

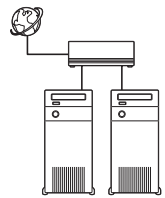
also known as: Ad Hoc / Peer-to-Peer



The wireless medium forms a hub in and of itself. No hardware hub is needed.

HOW TO INTERCONNECT WIRED NETWORKS

Use a **gateway router** to connect one network to another (e.g. to the Internet, also known as WAN).



CONNECTING WIRELESS TO WIRED NETWORKS

also known as: Infrastructure / Access Point

Use a **wireless base station**.

Central devices, like a hub, switch, router or wireless access point may be stand-alone devices or built into a computer.

- A **hub** has multiple ports and serves as a central connection point for communication lines from all computers on a wired network. It copies all data arriving at one port to the other ports. A **switch** is similar to a hub, but is able to handle different network speeds at each port.
- **Gateway routers** and **wireless access points** route network traffic from one network to another (e.g. from a wired network to the Internet, or from a wireless network to a wired network or to the Internet).

Chapter 9 - Technical specifications

Radio	IEEE 802.11a/g
Radio Technology	Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type	Built-in antenna
Data Rate	1 / 2 / 5.5 / 6 / 9 / 11 /12 / 18 / 24 / 36 / 48 / 54 / 72 / 96 / 108 Mbps
Host interface	Cardbus PC Card type II
Power consumption send / receive	Approx. 650 mA / 360 mA
Dimensions (h x w x d)	104 x 47 x 7 mm
Weight	Approx. 35 g
Operating Temperature	0 ~ 55°C
Storage Temperature	-20 ~ 75°C
Humidity	5 ~ 90% non-condensing

Chapter 10 - Troubleshooting

Please, check the following troubleshooting items and our web site www.philips.com/support before contacting our technical support.

Problem	Possible cause	Solution
ADAPTER INSTALLATION PROBLEMS		
Your PC cannot find the wireless Notebook Adapter or the network driver does not install correctly	Notebook Adapter not connected	Make sure the Notebook Adapter is securely connected to the PC cards connectors of your PC
	Notebook Adapter damaged	Check for any hardware problems, such as physical damage to the adapter's connector.
	Notebook Adapter defective	Try to connect the adapter to another PC Card slot or port. If this also fails, test your laptop with another Wireless Notebook Adapter 11a/g that is known to operate correctly.
	Conflicting network adapters.	If there are other network adapters in the laptop, they may be causing conflicts. Remove all other adapters from the laptop and test thewireless adapter separately.

If it still does not work, try re-installing the wireless Notebook adapter 11a/g from the original Installation CD. Restart your PC.

Problem	Possible cause	Solution
NETWORK CONNECTION PROBLEMS		
If the Link LED on the Wireless Notebook Adapter11a/g does not light, or if you cannot access any network resources from the computer.	PC or other network devices switched off.	Make sure the computer and other network devices are receiving power.
No access to a Windows or Net-Ware service on the network.	Service unavailable.	Check that you have enabled and configured the service correctly. If you cannot connect to a particular server, be sure that you have access rights and a valid ID and password. If you cannot access the Internet, be sure you have configured your system for TCP/IP.
If your wireless adapter cannot communicate with a computer in the network when configured for Infrastructure mode.	Base Station / Access Point is switched off.	Make sure the access point that the station is associated with is powered on.
	Range too long (weak radio signal).	Reposition your Wireless Adapter.
	Wrong settings	Make sure the SSID and the network encryption key are the same as those used by the wireless access point.
Network speed does not exceed 11 Mbps.	Other network components are unsuitable for higher network speeds.	Make sure all network components are suitable for high network speeds.

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Type: **CPWNA100**

Serial nr: _____

Date of purchase - Date de la vente - Verkaufsdatum - Aankoopdatum - Fecha de compra - Date d'acquisito -
Data da adquirição - Ημερομηνία αγοράς - Inköpsdatum - Anskaffelsesdato - Kjøpedato - Ostopäivä -

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